

**DRAFT**

PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Group Art Unit: 2106

Mark D. Owen and  
James N. O'Brien

Application No. 08/276,797

Filed: July 18, 1994

For: **ULTRAVIOLET LASER SYSTEM FOR  
FORMING VIAS IN MULTI-LAYERED  
TARGETS**

Examiner: Gregory L. Mills

SUBSTITUTE DECLARATION OF MARK D. OWEN  
CONCERNING AUTHORSHIP

TO THE ASSISTANT  
COMMISSIONER FOR PATENTS:

I, Mark D. Owen, declare as follows:

1. I am an inventor named in the above-identified patent application.

2. Mr. Rodger Dwight, the Communications Manager at Electro Scientific Industries, Inc., was responsible for organizing the content and layout of the Fall 1993 Laser Pulse reference published by Electro Scientific Industries, Inc.

3. I am a co-author of the Fall 1993 LaserPulse reference published by Electro Scientific Industries, Inc., and I edited the "4420" brochure. I wrote the text of "UV Laser Micromachining Applications Continue to Grow," appearing on pages 6 and 7, of the Fall 1993 LaserPulse reference and

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provided all of the photographs appearing in the reference to Mr. Dwight.

4. The text of pages 6 and 7 is based on data and photographs derived from experiments conducted by me and Mr. James N. O'Brien. Mr. O'Brien and I invented the subject matter disclosed on these pages.

5. Mr. O'Brien and I also prepared the examples for the photographs appearing in the "4420" brochure. The subject matter concerning the UV micromachining and the via drilling is derived from our invention.

6. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: \_\_\_\_\_

MARK D. OWEN

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